

- MOD S5.236** *Alternative allocation:* in Spain, France, Israel and Monaco, the band 223 - 230 MHz is allocated to the broadcasting and land mobile services on a primary basis (see No. S5.33) on the basis that, in the preparation of frequency plans, the broadcasting service shall have prior choice of frequencies; and allocated to the fixed and mobile, except land mobile, services on a secondary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations in Morocco and Algeria.
- MOD S5.237** *Additional allocation:* in the Congo, Eritrea, Ethiopia, Gambia, Guinea, Libya, Malawi, Mali, Uganda, Senegal, Sierra Leone, Somalia, Tanzania and Zimbabwe, the band 174 - 223 MHz is also allocated to the fixed and mobile services on a secondary basis.
- NOC S5.238** *Additional allocation:* in Bangladesh, India, Pakistan and the Philippines, the band 200 - 216 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- SUP S5.239**
- MOD S5.240** *Additional allocation:* in China and India, the band 216 - 223 MHz is also allocated to the aeronautical radionavigation service on a primary basis and to the radiolocation service on a secondary basis.
- NOC S5.241** In Region 2, no new stations in the radiolocation service may be authorized in the band 216 - 225 MHz. Stations authorized prior to 1 January 1990 may continue to operate on a secondary basis.
- NOC S5.242** *Additional allocation:* in Canada, the band 216 - 220 MHz is also allocated to the land mobile service on a primary basis.
- NOC S5.243** *Additional allocation:* in Somalia, the band 216 - 225 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to not causing harmful interference to existing or planned broadcasting services in other countries.

- NOC S5.244** *Additional allocation:* in Oman, the United Kingdom and Turkey, the band 216 - 235 MHz is also allocated to the radiolocation service on a secondary basis.
- NOC S5.245** *Additional allocation:* in Japan, the band 222 - 223 MHz is also allocated to the aeronautical radionavigation service on a primary basis and to the radiolocation service on a secondary basis.
- SUP S5.246**
- MOD S5.247** *Additional allocation:* in Saudi Arabia, Bahrain, the United Arab Emirates, Jordan, Oman, Qatar and Syria, the band 223 - 235 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- MOD S5.248** *Alternative allocation:* in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the bands 230 - 238 MHz and 246 - 254 MHz are allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. **S9.21**.
- SUP S5.249**
- NOC S5.250** *Additional allocation:* in China, the band 225 - 235 MHz is also allocated to the radio astronomy service on a secondary basis.
- MOD S5.251** *Additional allocation:* in Nigeria, the band 230 - 235 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to agreement obtained under No. **S9.21**.
- SUP S5.252**

■

MHz
235 – 335.4

MOD

Allocation to Services		
Region 1	Region 2	Region 3
235 – 267	FIXED MOBILE S5.111 S5.199 S5.248 S5.254 S5.256	
267 – 272	FIXED MOBILE Space Operation (space-to-Earth) S5.254 S5.257	
272 – 273	SPACE OPERATION (space-to-Earth) FIXED MOBILE S5.254	
273 – 312	FIXED MOBILE S5.254	
312 – 315	FIXED MOBILE Mobile-Satellite (Earth-to-space) S5.254 S5.255	
315 – 322	FIXED MOBILE S5.254	
322 – 328.6	FIXED MOBILE RADIO ASTRONOMY S5.149	
328.6 – 335.4	AERONAUTICAL RADIONAVIGATION S5.258 S5.259	

SUP S5.253

MOD S5.254

The bands 235 - 322 MHz and 335.4 - 399.9 MHz may be used by the mobile-satellite service, subject to agreement obtained under No. S9.21, on condition that stations in this service do not cause harmful interference to those of other services operating or planned to be operated in accordance with the Table of Frequency Allocations.

MOD S5.255

The bands 312 - 315 MHz (Earth-to-space) and 387 - 390 MHz (space-to-Earth) in the mobile-satellite service may also be used by non-geostationary-satellite systems. Such use is subject to coordination under No. S9.11bis.

NOC S5.256

The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes (see Appendix S13).

MOD S5.257

The band 267 - 272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. S9.21.

MOD S5.258

The use of the band 328.6 - 335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).

MOD S5.259

Additional allocation: in Germany, Austria, Belgium, Cyprus, Denmark, Egypt, Spain, France, Greece, Israel, Italy, Japan, Jordan, Malta, Morocco, Monaco, Norway, the Netherlands, the United Kingdom, Sweden, Switzerland and Syria, the band 328.6 - 335.4 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. S9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. [S9.21].

MHz
335.4 – 402

Allocation to Services		
Region 1	Region 2	Region 3
MOD	335.4 – 387	FIXED MOBILE S5.254
	387 – 390	FIXED MOBILE Mobile-Satellite (space-to-Earth) S5.254 S5.255 S5.208A
	390 – 399.9	FIXED MOBILE S5.254
MOD	399.9 – 400.05	RADIONAVIGATION-SATELLITE S5.222 S5.260 LAND MOBILE-SATELLITE (Earth-to-space) S5.209 S5.220 S5.224
	400.05 – 400.15	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) S5.261 S5.262
MOD	400.15 – 401	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.209 S5.208A SPACE RESEARCH (space-to-Earth) S5.263 Space Operation (space-to-Earth) S5.262 S5.264
	401 – 402	METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) Earth Exploration-Satellite (Earth-to-space) Fixed Meteorological-Satellite (Earth-to-space) Mobile except aeronautical mobile

- NOC S5.260** Recognizing that the use of the band 399.9 - 400.05 MHz by the fixed and mobile services may cause harmful interference to the radionavigation satellite service, administrations are urged not to authorize such use in application of No. S4.4.
- NOC S5.261** Emissions shall be confined in a band of ± 25 kHz about the standard frequency 400.1 MHz.
- MOD S5.262** *Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Bosnia and Herzegovina, Bulgaria, Colombia, Costa Rica, Cuba, Egypt, the United Arab Emirates, Ecuador, Estonia, Georgia, Hungary, Indonesia, the Islamic Republic of Iran, Iraq, Israel, Jordan, Kazakhstan, Kuwait, Liberia, Malaysia, Moldova, Nigeria, Uzbekistan, Pakistan, the Philippines, Qatar, Syria, Kyrgyzstan, Slovakia, Romania, Russia, Singapore, Somalia, Sri Lanka Tajikistan, Turkmenistan, Ukraine and Yugoslavia, the band 400.05 - 401 MHz is also allocated to the fixed and mobile services on a primary basis.
- NOC S5.263** The band 400.15 - 401 MHz is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.
- MOD S5.264** The use of the band 400.15 - 401 MHz by the mobile-satellite service is subject to coordination under No. S9.11bis. The power flux-density limit indicated in [Table X] of Article [S21] shall apply until such time as a competent world radiocommunication conference revises it.

MHz
402 - 430

MOD

MOD

Allocation to Services		
Region 1	Region 2	Region 3
402 - 403	METEOROLOGICAL AIDS Earth Exploration-Satellite (Earth-to-space) Fixed Meteorological-Satellite (Earth-to-space) Mobile except aeronautical mobile	
403 - 406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	
406 - 406.1	MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267	
406.1 - 410	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	
410 - 420	FIXED MOBILE except aeronautical mobile Space Research (space-to-space) S5.269	
420 - 430	FIXED MOBILE except aeronautical mobile Radiolocation S5.268 S5.270 S5.271	

- SUP S5.265**
- NOC S5.266** The use of the band 406 - 406.1 MHz by the mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons (see also Article S31 and Appendix S13).
- NOC S5.267** Any emission capable of causing harmful interference to the authorized uses of the band 406 - 406.1 MHz is prohibited.
- NOC S5.268** *Different category of service:* in Australia, the United States, India, Japan and the United Kingdom, the allocation of the bands 420 - 430 MHz and 440 - 450 MHz to the radiolocation service is on a primary basis (see No. S5.33).
- NOC S5.269** Use of the band 410 - 420 MHz by the space research service is limited to communications within 5 km of an orbiting, manned space vehicle.
- NOC S5.270** *Additional allocation:* in Australia, the United States, Jamaica and the Philippines, the bands 420 - 430 MHz and 440 - 450 MHz are also allocated to the amateur service on a secondary basis.
- MOD S5.271** *Additional allocation:* in Armenia, Azerbaijan, Belarus, China, Estonia, Georgia, India, Kazakhstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, the United Kingdom, Russia, Tajikistan, Turkmenistan and Ukraine, the band 420 - 460 MHz is also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis.
- ADD S5.271A** The use of the bands 455 - 456 MHz and 459 - 460 MHz by the mobile-satellite service is subject to coordination under No. S9.11 bis.

MHz
430 – 470

Allocation to Services		
Region 1	Region 2	Region 3
430 – 440 AMATEUR RADIOLOCATION S5.138 S5.271 S5.272 S5.273 S5.274 S5.275 S5.276 S5.277 S5.280 S5.281 S5.282 S5.283	430 – 440 RADIOLOCATION Amateur S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282	
440 – 450	FIXED MOBILE except aeronautical mobile Radiolocation S5.268 S5.270 S5.271 S5.284 S5.285 S5.286	
450 – 455	FIXED MOBILE S5.271 S5.286	
455 – 456 FIXED MOBILE S5.271 S5.286B	455 – 456 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.209 S5.271A S5.286A S5.286B S5.271	455 – 456 FIXED MOBILE S5.271 S5.286B
456 – 459	FIXED MOBILE S5.271 S5.287 S5.288	
459 – 460 FIXED MOBILE S5.271 S5.286B	459 – 460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.209 S5.271A S5.286A S5.286B S5.271	459 – 460 FIXED MOBILE S5.271 S5.286B
460 – 470	FIXED MOBILE Meteorological-Satellite (space-to-Earth) S5.287 S5.288 S5.289 S5.290	

MOD

MOD

- NOC S5.272** *Different category of service:* in France, the allocation of the band 430 - 434 MHz to the amateur service is on a secondary basis (see No. S5.32).
- MOD S5.273** *Different category of service:* in Denmark, Libya and Norway, the allocation of the bands 430 - 432 MHz and 438 - 440 MHz to the radiolocation service is on a secondary basis (see No. S5.32).
- NOC S5.274** *Alternative allocation:* in Denmark, Norway and Sweden, the bands 430 - 432 MHz and 438 - 440 MHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- MOD S5.275** *Additional allocation:* in Bosnia and Herzegovina, Croatia, Finland, The Former Yugoslav Republic of Macedonia, Libya, Slovenia and Yugoslavia, the bands 430 - 432 MHz and 438 - 440 MHz are also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- MOD S5.276** *Additional allocation:* in Afghanistan, Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burkina Faso, Burundi, Egypt, the United Arab Emirates, Ecuador, Eritrea, Ethiopia, Greece, Guinea, India, Indonesia, the Islamic Republic of Iran, Iraq, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Liechtenstein, Malaysia, Malta, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syria, Singapore, Somalia, Switzerland, Tanzania, Thailand, Togo, Turkey and Yemen, the band 430 - 440 MHz is also allocated to the fixed service on a primary basis and the bands 430 - 435 MHz and 438 - 440 MHz are also allocated to the mobile, except aeronautical mobile, service on a primary basis.
- MOD S5.277** *Additional allocation:* in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Cameroon, the Congo, Djibouti, Estonia, Gabon, Georgia, Hungary, Kazakhstan, Latvia, Malawi, Mali, Moldova, Mongolia, Niger, Uzbekistan, Pakistan, Poland, Kyrgyzstan, Democratic People's Republic of Korea, Slovakia, the Czech Republic, Romania, Russia, Rwanda, Tajikistan, Chad, Turkmenistan and Ukraine, the band 430 - 440 MHz is also allocated to the fixed service on a primary basis.
- NOC S5.278** *Different category of service:* in Argentina, Colombia, Costa Rica, Cuba, Guyana, Honduras, Panama and Venezuela, the allocation of the band 430 - 440 MHz to the amateur service is on a primary basis (see No. S5.33).
- MOD S5.279** *Additional allocation:* in Mexico, the bands 430 - 435 MHz and 438 - 440 MHz are also allocated on a primary basis to the land mobile service, subject to agreement obtained under No. S9.21.

- MOD S5.280** In Germany, Austria, Bosnia and Herzegovina, Croatia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Portugal, Slovenia, Switzerland and Yugoslavia, the band 433.05 - 434.79 MHz (centre frequency 433.92 MHz) is designated for industrial, scientific and medical (ISM) applications. Radiocommunication services of these countries operating within this band must accept harmful interference which may be caused by these applications. ISM equipment operating in this band is subject to the provisions of No. S15.13.
- NOC S5.281** *Additional allocation:* in the French Overseas Departments in Region 2 and India, the band 433.75 - 434.25 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis. In France and in Brazil, the band is allocated to the same service on a secondary basis.
- NOC S5.282** In the bands 435 - 438 MHz, 1 260 - 1 270 MHz, 2 400 - 2 450 MHz, 3 400 - 3 410 MHz (in Regions 2 and 3 only) and 5 650 - 5 670 MHz, the amateur-satellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table (see No. S5.43). Administrations authorizing such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. S25.11. The use of the bands 1 260 - 1 270 MHz and 5 650 - 5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
- NOC S5.283** *Additional allocation:* in Austria, the band 438 - 440 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- MOD S5.284** *Additional allocation:* in Canada, the band 440 - 450 MHz is also allocated to the amateur service on a secondary basis.
- NOC S5.285** *Different category of service:* in Canada, the allocation of the band 440 - 450 MHz to the radiolocation service is on a primary basis (see No. S5.33).
- MOD S5.286** The band 449.75 - 450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to agreement obtained under No. S9.21.
- ADD S5.286A** Stations in the mobile-satellite service in the bands 455 - 456 MHz and 459 - 460 MHz shall not constrain the development and use of the fixed and mobile services.
- ADD S5.286B** Stations in the mobile-satellite service in the bands 455 - 456 MHz and 459 - 460 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services.

- MOD S5.287** In the maritime mobile service, the frequencies 457.525 MHz, 457.550 MHz, 457.575 MHz, 467.525 MHz, 467.550 MHz and 467.575 MHz may be used by on-board communication stations. The use of these frequencies in territorial waters may be subject to the national regulations of the administration concerned. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174.
- MOD S5.288** In the territorial waters of the United States and the Philippines, the preferred frequencies for use by on-board communication stations shall be 457.525 MHz, 457.550 MHz, 457.575 MHz and 457.600 MHz paired, respectively, with 467.750 MHz, 467.775 MHz, 467.800 MHz and 467.825 MHz. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174.
- NOC S5.289** Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460 - 470 MHz and 1 690 - 1 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
- MOD S5.290** *Different category of service:* in Afghanistan, Armenia, Azerbaijan, Belarus, Bulgaria, China, Georgia, Japan, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, Russia, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 460 - 470 MHz to the meteorological-satellite service (space-to-Earth) is on a primary basis (see No. S5.33), subject to agreement obtained under No. S9.21.

MHz
470 – 890

Allocation to Services					
Region 1		Region 2		Region 3	
MOD	470 – 790	470 – 512	470 – 585		
	BROADCASTING	BROADCASTING	FIXED		
		Fixed	MOBILE		
		Mobile	BROADCASTING		
	S\$5.292 S\$5.293		S\$5.291 S\$5.298		
	512 – 608	512 – 608	585 – 610		
	BROADCASTING	BROADCASTING	FIXED		
	S\$5.297		MOBILE		
	608 – 614	608 – 614	BROADCASTING		
	RADIO ASTRONOMY	RADIO ASTRONOMY	RADIONAVIGATION		
	Mobile-Satellite except aeronautical mobile- satellite (Earth-to-space)		S\$5.149 S\$5.305 S\$5.306 S\$5.307		
	S\$5.149 S\$5.294 S\$5.296 S\$5.300 S\$5.302 S\$5.304 S\$5.306 S\$5.311 S\$5.312	614 – 806	610 – 890		
MOD		BROADCASTING	FIXED		
		Fixed	MOBILE		
		Mobile	BROADCASTING		
		S\$5.293 S\$5.309 S\$5.310 S\$5.311			
	790 – 862	806 – 890			
	FIXED	FIXED			
	BROADCASTING	MOBILE			
	S\$5.312 S\$5.313 S\$5.314 S\$5.315 S\$5.316 S\$5.319 S\$5.321	BROADCASTING			
	862 – 890				
	FIXED				
	MOBILE except aeronautical mobile				
	BROADCASTING S\$5.322				
MOD			S\$5.149 S\$5.305 S\$5.306 S\$5.307 S\$5.311 S\$5.320		
MOD	S\$5.319 S\$5.323	S\$5.310 S\$5.317 S\$5.318			

- MOD S5.291** *Additional allocation:* in China, the band 470 - 485 MHz is also allocated to the space research (space-to-Earth) and the space operation (space-to-Earth) services on a primary basis subject to agreement obtained under No. S9.21 and subject to not causing harmful interference to existing and planned broadcasting stations.
- MOD S5.292** *Different category of service:* in Mexico and Venezuela, the allocation of the band 470 - 512 MHz to the fixed and mobile services, and in Argentina and Uruguay to the mobile service, is on a primary basis, (see No. S5.33), subject to agreement obtained under No. S9.21.
- MOD S5.293** *Different category of service:* in Chile, Colombia, Cuba, the United States, Guyana, Honduras, Jamaica, Mexico and Panama, the allocation of the bands 470 - 512 MHz and 614 - 806 MHz to the fixed and mobile services is on a primary basis, (see No. S5.33), subject to agreement obtained under No. S9.21.
- NOC S5.294** *Additional allocation:* in Burundi, Cameroon, the Congo, Ethiopia, Israel, Kenya, Lebanon, Libya, Malawi, Senegal, Sudan, Syria, and Yemen, the band 470 - 582 MHz is also allocated to the fixed service on a secondary basis.
- SUP S5.295**
- MOD S5.296** *Additional allocation:* in Germany, Austria, Belgium, Cyprus, Denmark, Spain, Finland, France, Ireland, Israel, Italy, Libya, Malta, Morocco, Monaco, Norway, the Netherlands, Portugal, the United Kingdom, Sweden, Switzerland, Swaziland, Syria, Tunisia and Turkey, the band 470 - 790 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting. Stations of the land mobile service in the countries mentioned in this footnote, shall not cause harmful interference to existing or planned stations operating in accordance with the Table of Frequency Allocations in countries other than those listed in this footnote.
- MOD S5.297** *Additional allocation:* in Costa Rica, Cuba, El Salvador, the United States, Guatemala, Guyana, Honduras, Jamaica, Mexico and Venezuela, the band 512 - 608 MHz is also allocated to the fixed and mobile services on a primary basis, subject to agreement obtained under No. S9.21.
- NOC S5.298** *Additional allocation:* in India, the band 549.75 - 550.25 MHz is also allocated to the space operation service (space-to-Earth) on a secondary basis.
- SUP S5.299**

- NOC S5.300** *Additional allocation:* in Israel, Libya, Syria and Sudan, the band 582 - 790 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis.
- SUP S5.301**
- NOC S5.302** *Additional allocation:* in the United Kingdom, the band 590 - 598 MHz is also allocated to the aeronautical radionavigation service on a primary basis. All new assignments to stations in the aeronautical radionavigation service, including those transferred from the adjacent bands, shall be subject to coordination with the Administrations of the following countries: Germany, Belgium, Denmark, Spain, France, Ireland, Luxembourg, Morocco, Norway and the Netherlands.
- SUP S5.303**
- NOC S5.304** *Additional allocation:* in the African Broadcasting Area (see Nos. S5.10 to S5.13), the band 606 - 614 MHz is also allocated to the radio astronomy service on a primary basis.
- NOC S5.305** *Additional allocation:* in China, the band 606 - 614 MHz is also allocated to the radio astronomy service on a primary basis.
- NOC S5.306** *Additional allocation:* in Region 1, except in the African Broadcasting Area (see Nos. S5.10 to S5.13), and in Region 3, the band 608 - 614 MHz is also allocated to the radio astronomy service on a secondary basis.
- NOC S5.307** *Additional allocation:* in India, the band 608 - 614 MHz is also allocated to the radio astronomy service on a primary basis.
- SUP S5.308**
- MOD S5.309** *Different category of service:* in Costa Rica, El Salvador and Honduras, the allocation of the band 614 - 806 MHz to the fixed service is on a primary basis, (see No. S5.33), subject to agreement obtained under No. S9.21.
- MOD S5.310** *Additional allocation:* in Cuba, the band 614 - 890 MHz is also allocated to the radionavigation service on a primary basis, subject to agreement obtained under No. S9.21.

- NOC S5.311** Within the frequency band 620 - 790 MHz, assignments may be made to television stations using frequency modulation in the broadcasting-satellite service subject to agreement between the administrations concerned and those having services, operating in accordance with the Table, which may be affected (see Resolutions 33 and 507). Such stations shall not produce a power flux-density in excess of the value $-129 \text{ dB(W/m}^2\text{)}$ for angles of arrival less than 20° (see Recommendation 705) within the territories of other countries without the consent of the administrations of those countries.
- MOD S5.312** *Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Russia Tajikistan, Turkmenistan and Ukraine, the band 645 - 862 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- NOC S5.313** *Alternative allocation:* in Spain and France, the band 790 - 830 MHz is allocated to the broadcasting service on a primary basis.
- NOC S5.314** *Additional allocation:* in Austria, Italy, the United Kingdom and Swaziland, the band 790 - 862 MHz is also allocated to the land mobile service on a secondary basis.
- NOC S5.315** *Alternative allocation:* in Greece, Italy, Morocco and Tunisia, the band 790 - 838 MHz is allocated to the broadcasting service on a primary basis.
- MOD S5.316** *Additional allocation:* in Germany, Bosnia and Herzegovina, Burkina Faso, Cameroon, Côte d'Ivoire, Croatia, Denmark, Egypt, Finland, Israel, Kenya, The Former Yugoslav Republic of Macedonia, Libya, Liechtenstein, Monaco, Norway, the Netherlands, Portugal, Sweden, Switzerland and Yugoslavia, the band 790 - 830 MHz, and in these same countries and in Spain, France, Gabon, Malta and Syria, the band 830 - 862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis. However, stations of the mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, stations of services operating in accordance with the Table in countries other than those mentioned in connection with the band.

- MOD S5.317** *Additional allocation:* in Region 2 (except Brazil and the United States), the band 806 - 890 MHz is also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. S9.21. The use of this service is intended for operation within national boundaries.
- NOC S5.318** *Additional allocation:* in Canada, the United States and Mexico, the bands 849 - 851 MHz and 894 - 896 MHz are also allocated to the aeronautical mobile service on a primary basis, for public correspondence with aircraft. The use of the band 849 - 851 MHz is limited to transmissions from aeronautical stations and the use of the band 894 - 896 MHz is limited to transmissions from aircraft stations.
- NOC S5.319** *Additional allocation:* in Belarus, Russia and Ukraine, the bands 806 - 840 MHz (Earth-to-space) and 856 - 890 MHz (space-to-Earth) are also allocated to the mobile-satellite, except aeronautical mobile-satellite (R), service. The use of these bands by this service shall not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations and is subject to special agreements between the administrations concerned.
- MOD S5.320** *Additional allocation:* in Region 3, the bands 806 - 890 MHz and 942 - 960 MHz are also allocated to the mobile-satellite, except aeronautical mobile-satellite (R), service on a primary basis, subject to agreement obtained under No. S9.21. The use of this service is limited to operation within national boundaries. In seeking such agreement, appropriate protection shall be afforded to services operating in accordance with the Table, to ensure that no harmful interference is caused to such services.
- NOC S5.321** *Alternative allocation:* in Italy, the band 838 - 854 MHz is allocated to the broadcasting service on a primary basis as from 1 January 1995.
- MOD S5.322** In Region 1, in the band 862 - 960 MHz, stations of the broadcasting service shall be operated only in the African Broadcasting Area (see Nos. S5.10 to S5.13) excluding Algeria, Egypt, Spain, Libya and Morocco, subject to agreement obtained under No. S9.21.

MOD S5.323

Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Russia, Tajikistan, Turkmenistan and Ukraine, the band 862 - 960 MHz is also allocated to the aeronautical radionavigation service on a primary basis until 1 January 1998. Up to this date, the aeronautical radionavigation service may use the band, subject to agreement obtained under No. S9.21. After this date, the aeronautical radionavigation service may continue to operate on a secondary basis.

MHz
890 – 1 240

Allocation to Services					
Region 1		Region 2		Region 3	
MOD	890 – 942	890 – 902	890 – 942		
	FIXED	FIXED	FIXED		
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	MOBILE		
	BROADCASTING S5.322	Radiolocation	BROADCASTING		
	Radiolocation	S5.318 S5.325	Radiolocation		
	902 – 928				
	FIXED				
	Amateur				
	Mobile except aeronautical mobile				
	Radiolocation				
	S5.150 S5.325 S5.327				
	928 – 942				
	FIXED				
	MOBILE except aeronautical mobile				
	Radiolocation				
S5.323	S5.325	S5.326			
942 – 960	942 – 960	942 – 960			
FIXED	FIXED	FIXED			
MOBILE except aeronautical mobile	MOBILE	MOBILE			
BROADCASTING S5.322		BROADCASTING			
S5.323		S5.320			
960 – 1 215	AERONAUTICAL RADIONAVIGATION				
	S5.328				
1 215 – 1 240	RADIOLOCATION				
	RADIONAVIGATION-SATELLITE				
	(space-to-Earth) S5.329				
	S5.330 S5.331 S5.333				
MOD					

- SUP S5.324**
- MOD S5.325** *Different category of service:* in the United States, the allocation of the band 890 - 942 MHz to the radiolocation service is on a primary basis, (see No. S5.33), subject to agreement obtained under No. S9.21.
- MOD S5.326** *Different category of service:* in Australia, the allocation of the band 915 - 928 MHz to the radiolocation service is on a primary basis (see No. S5.33).
- MOD S5.327** *Different category of service:* in Chile, the band 903 - 905 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. S9.21.
- NOC S5.328** The band 960 - 1 215 MHz is reserved on a worldwide basis for the use and development of airborne electronic aids to air navigation and any directly associated ground-based facilities.
- NOC S5.329** Use of the radionavigation-satellite service in the band 1 215 - 1 260 MHz shall be subject to the condition that no harmful interference is caused to the radionavigation service authorized under No. S5.331.
- MOD S5.330** *Additional allocation:* in Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, China, the United Arab Emirates, Eritrea, Ethiopia, Guinea, Guyana, India, Indonesia, the Islamic Republic of Iran, Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Libya, Malawi, Morocco, Mozambique, Nepal, Nigeria, Pakistan, the Philippines, Qatar, Syria, Somalia, Sudan, Sri Lanka, Chad, Thailand, Togo and Yemen, the band 1 215 - 1 300 MHz is also allocated to the fixed and mobile services on a primary basis.
- MOD S5.331** *Additional allocation:* in Algeria, Germany, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Burundi, Cameroon, China, Croatia, Denmark, the United Arab Emirates, France, Greece, India, the Islamic Republic of Iran, Iraq, Kenya, The Former Yugoslav Republic of Macedonia, Liechtenstein, Luxembourg, Mali, Mauritania, Norway, Oman, Pakistan, the Netherlands, Portugal, Qatar, Senegal, Slovenia, Somalia, Sudan, Sri Lanka, Sweden, Switzerland, Turkey and Yugoslavia, the band 1 215 - 1 300 MHz is also allocated to the radionavigation service on a primary basis.
- SUP S5.332**
- NOC S5.333** In the bands 1 215 - 1 300 MHz, 3 100 - 3 300 MHz, 5 250 - 5 350 MHz, 8 550 - 8 650 MHz, 9 500 - 9 800 MHz and 13.4 - 14.0 GHz, radiolocation stations installed on spacecraft may also be employed for the earth exploration-satellite and space research services on a secondary basis.

MHz
1 240 – 1 452

Allocation to Services		
Region 1	Region 2	Region 3
1 240 – 1 260	RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) S5.329 Amateur S5.330 S5.331 S5.333 S5.334	
1 260 – 1 300	RADIOLOCATION Amateur S5.282 S5.330 S5.331 S5.333 S5.334	
1 300 – 1 350	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.149	
1 350 – 1 400 FIXED MOBILE RADIOLOCATION S5.149 S5.338 S5.339	1 350 – 1 400 RADIOLOCATION S5.149 S5.334 S5.339	
1 400 – 1 427	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	
1 427 – 1 429	SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile S5.341	
1 429 – 1 452 FIXED MOBILE except aeronautical mobile S5.341 S5.347	1 429 – 1 452 FIXED MOBILE S5.345 S5.341	

MHz
1 452 – 1 530

Allocation to Services			
	Region 1	Region 2	Region 3
MOD	1 452 – 1 492 FIXED MOBILE except aeronautical mobile BROADCASTING S5.342 S5.343 BROADCASTING- SATELLITE S5.342 S5.343 S5.341 S5.347	1 452 – 1 492 FIXED MOBILE S5.345 BROADCASTING S5.342 S5.343 BROADCASTING-SATELLITE S5.342 S5.343 S5.341 S5.344	
	1 492 – 1 525 FIXED MOBILE except aeronautical mobile S5.341 S5.347	1 492 – 1 525 FIXED MOBILE S5.345 MOBILE-SATELLITE (space-to-Earth) S5.348A S5.341 S5.344 S5.348	1 492 – 1 525 FIXED MOBILE S5.341 S5.348A
	1 525 – 1 530 SPACE OPERATION (space-to-Earth) FIXED MARITIME MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Land Mobile-Satellite (space-to-Earth) S5.352 Mobile except aeronautical mobile S5.349 S5.341 S5.347 S5.350 S5.351 S5.354	1 525 – 1 530 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile S5.345 S5.341 S5.351 S5.354	1 525 – 1 530 SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Mobile S5.349 S5.341 S5.351 S5.354

MHz
1 530 – 1 545

Allocation to Services		
Region 1	Region 2	Region 3
1 530 – 1 533 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) LAND MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile except aeronautical mobile S5.341 S5.347 S5.351 S5.354	1 530 – 1 533 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) LAND MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile S5.345 S5.341 S5.351 S5.353 S5.354	
1 533 – 1 535 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile except aeronautical mobile Land Mobile-Satellite (space-to-Earth) S5.352 S5.341 S5.347 S5.351 S5.354	1 533 – 1 535 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile S5.345 Land Mobile-Satellite (space-to-Earth) S5.352 S5.341 S5.351 S5.353 S5.354	
1 535 – 1 544	MARITIME MOBILE-SATELLITE (space-to-Earth) Land Mobile-Satellite (space-to-Earth) S5.352 S5.341 S5.351 S5.353 S5.354 S5.355	
1 544 – 1 545	MOBILE-SATELLITE (space-to-Earth) S5.341 S5.354 S5.355 S5.356	

- NOC S5.334** *Additional allocation:* in Canada and the United States, the bands 1 240 - 1 300 MHz and 1 350 - 1 370 MHz are also allocated to the aeronautical radionavigation service on a primary basis.
- SUP S5.335**
- SUP S5.336**
- NOC S5.337** The use of the bands 1 300 - 1 350 MHz, 2 700 - 2 900 MHz and 9 000 - 9 200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
- MOD S5.338** In Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakhstan, Moldova, Mongolia, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Russia, Tajikistan, Turkmenistan and Ukraine, the existing installations of the radionavigation service may continue to operate in the band 1 350 - 1 400 MHz.
- NOC S5.339** The bands 1 370 - 1 400 MHz, 2 640 - 2 655 MHz, 4 950 - 4 990 MHz and 15.20 - 15.35 GHz are also allocated to the space research (passive) and earth exploration-satellite (passive) services on a secondary basis.
- (MOD) S5.340** All emissions are prohibited in the following bands:
- 1 400 - 1 427 MHz,
 - 2 690 - 2 700 MHz except those provided for by Nos. **S5.421** and **S5.422**,
 - 10.68 - 10.7 GHz except those provided for by No. **S5.483**,
 - 15.35 - 15.4 GHz except those provided for by No. **S5.511**,
 - 23.6 - 24 GHz,
 - 31.3 - 31.5 GHz,
 - 31.5 - 31.8 GHz in Region 2,
 - 48.94 - 49.04 GHz from airborne stations,
 - 51.4 - 54.25 GHz,
 - 58.2 - 59 GHz,

64 - 65 GHz,

86 - 92 GHz,

105 - 116 GHz,

140.69 - 140.98 GHz from airborne stations and from space stations in the space-to-Earth direction,

182 - 185 GHz except those provided for by No. S5.563,

217 - 231 GHz.

- NOC S5.341** In the bands 1 400 - 1 727 MHz, 101 - 120 GHz and 197 - 220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin.
- NOC S5.342** Use of the band 1 452 - 1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (WARC-92).
- MOD S5.343** *Different category of service:* in Bangladesh, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Colombia, Cuba, Denmark, Egypt, Spain, Greece, Hungary, Ireland, Italy, Jordan, Kenya, The Former Yugoslav Republic of Macedonia, Malawi, Mozambique, Panama, Portugal, Sri Lanka, Sweden, Swaziland, Yemen, Yugoslavia and Zimbabwe, the allocation of the band 1 452 - 1 492 MHz to the broadcasting-satellite service and the broadcasting service is on a secondary basis until 1 April 2007.
- NOC S5.344** *Alternative allocation:* in the United States, the band 1 452 - 1 525 MHz is allocated to the fixed and mobile services on a primary basis. (See also No. S5.345.)
- MOD S5.345** In Region 2, the use of the band 1 435 - 1 535 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service.
- SUP S5.346**
- NOC S5.347** *Additional allocation:* in Belarus, Russia and Ukraine, the band 1 429 - 1 535 MHz is also allocated to the aeronautical mobile service on a primary basis exclusively for the purposes of aeronautical telemetry within the national territory. As of 1 April 2007, the use of the band 1 452 - 1 492 MHz is subject to agreement between the administrations concerned.